

AP Calculus 2012-08-29

- teach about limits
 - whether a limit exists or not
- limits may still exist at a hole in a $f^?$
- limits* don't exist at jump discontinuities
- analogy: if you travel down both halves of the $f^?$ you'll meet at same place $\left[\begin{array}{l} \text{if a limit} \\ \text{exists} \end{array} \right]$

2.1/1

$\lim_{x \rightarrow \square} f(x) =$ a y-value
 the height of the fⁿ
 intended

$x \rightarrow \square$

independent variable

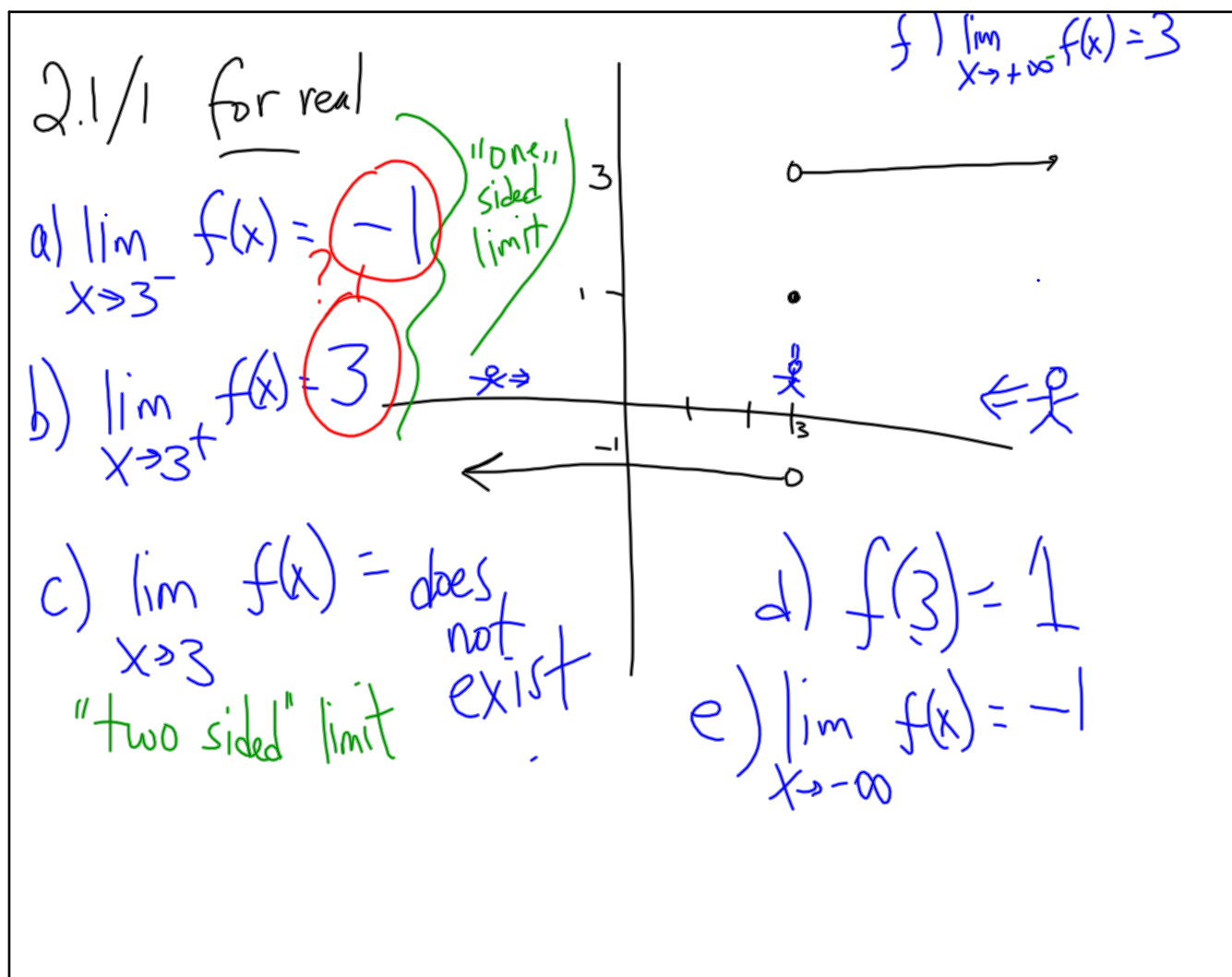
value of *

or, more generally
 a condition
 or a relationship or...
X-values

that thing

ex

2
 2⁺
 2⁻
 2⁺
 2⁻
 ∞
 -∞



2 a) 2
b) 0
c) dne
d) 2
e) 0
f) 2

3 a) 1
b) 1
c) 1
d) 1
e) $-\infty$
f) ∞

4 a) 4 or 3
b) 4 3
c) 4 3
d) 4 3
e) $+\infty$
f) $+\infty$

Dunning-Kruger effect (art. fr. Wikipedia)

- math articles on W
- mathworld.wolfram.com
- incompetent ppl OVERestimate their ability
- competent ppl estimate accurately OR
Underestimate - uncertainty, doubt
- across many skill areas - Over estimate everyone else

⇒ YOU (me) need feedback to estimate correctly

EVERYONE THINKS THEY ARE
ABOVE AVERAGE